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Sequence Listing could not be accepted due to errors.
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Reviewer: markspencer
Timestamp: [year=2009; month=6; day=19; hr=14; min=3; sec=41; ms=93;]

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E321 No. of Bases conflict, this line has no nucleotides SEQID (10) POS (96)
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<213> Homo sapiens

<220>
<223> light chain variable region of the GF4/1.1 antibody

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Glu Asp Phe Ala Leu Tyr Tyr Cys His Glu Tyr Asn Gly Trp Pro Pro
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Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105 110

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SEQUENCE LISTING

<110> Matsumoto, Yoh-Ichi
Kimura, Tsuyoshi
Imaizumi, Atsuchi
Takedo, Tae
Co, May Sung
Vasquez, Maximiliano
TEIJIN LIMITED

<120> HUMANIZED ANTIBODIES THAT RECOGNIZE VEROTOXIN II AND CELL LINE PRODUCING SAME

<130> 019026-000110US

<140> 09700851
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<151> 1999-05-19

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Met Asn Phe Val Leu Ser Ser Ile Phe Leu Ala Leu Ile Leu Lys Gly
  1               5                  10                  15

gtc cag tgt gaa gtg cag ctg gtg gag tcg ggg gga ggc tta gtg aag   96
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys
             20                  25                  30

cct gga ggg ccc ctg aaa ctc tcc tgt gca gcc tct gga ttc act ttc   144
Pro Gly Gly Pro Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
         35                  40                  45

agt agt tat ggc atg tct tgg gtt cgc cag act ccg gag aag agg ctg   192
Ser Ser Tyr Gly Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu
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gag tgg gtc gca acc att agt act ggt ggt agt tac acc tac tac cca   240
Glu Trp Val Ala Thr Ile Ser Thr Gly Gly Ser Tyr Thr Tyr Tyr Pro
 65                  70                  75                  80

gac agt gtg aag ggt cga ttc acc atc tcc aga gac aat gcc aag aac   288
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
                85                  90                  95

gcc ctg tat ctg caa atg agc agt ctg agg tct gag gac acg gcc ata   336
Ala Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Ile
            100                 105                 110

tat tac tgt gca aga cgg ggg gac gca tgg ggt aac ttg gac tac tgg   384
Tyr Tyr Cys Ala Arg Arg Gly Asp Ala Trp Gly Asn Leu Asp Tyr Trp
        115                 120                 125

ggt caa gga acc tct gtc acc gtc tcc tca                           414
Gly Gln Gly Thr Ser Val Thr Val Ser Ser
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  1               5                  10                  15

Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys
             20                  25                  30

Pro Gly Gly Pro Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
         35                  40                  45

Ser Ser Tyr Gly Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu
     50                  55                  60

Glu Trp Val Ala Thr Ile Ser Thr Gly Gly Ser Tyr Thr Tyr Tyr Pro
 65                  70                  75                  80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
                85                  90                  95

Ala Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Ile
            100                 105                 110

Tyr Tyr Cys Ala Arg Arg Gly Asp Ala Trp Gly Asn Leu Asp Tyr Trp
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VTm1.1 antibody (MuVTm1.1).

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Met Val Phe Thr Pro Gln Ile Leu Gly Leu Met Leu Phe Trp Ile Ser
  1               5                  10                  15

gcc tcc aga ggt gat gtt gtg cta act cag tct cca gcc acc ctg tct   96
Ala Ser Arg Gly Asp Val Val Leu Thr Gln Ser Pro Ala Thr Leu Ser
             20                  25                  30

gtg act cca gga gat agc gtc agt ctt tcc tgc agg gcc agt caa act   144
Val Thr Pro Gly Asp Ser Val Ser Leu Ser Cys Arg Ala Ser Gln Thr
         35                  40                  45

att agc aac aac cta cac tgg tat caa cac aaa tca cat gag tct cca   192
Ile Ser Asn Asn Leu His Trp Tyr Gln His Lys Ser His Glu Ser Pro
     50                  55                  60

agg ctt ctc atc aag tct gct tcc cag tcc atc tct ggg atc ccc tcc   240
Arg Leu Leu Ile Lys Ser Ala Ser Gln Ser Ile Ser Gly Ile Pro Ser
 65                  70                  75                  80

agg ttc agt ggc agt gga tca ggg aca gat ttc act ctc agt atc aac   288
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn
                 85                  90                  95

agt gtg gaa act gaa gat ttt gga atg tat ttc tgt caa cag agt tac   336
Ser Val Glu Thr Glu Asp Phe Gly Met Tyr Phe Cys Gln Gln Ser Tyr
            100                 105                 110

agc tgg ccg ctc acg ttc ggt gct ggg acc aag ctg gag ctg aaa       381
Ser Trp Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
        115                 120                 125
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<210> 4
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<213> Mus musculus

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<223> Figure 1(B): Light chain variable region of mouse
VTm1.1 antibody (MuVTm1.1).

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1 5 10 15

Ala Ser Arg Gly Asp Val Val Leu Thr Gln Ser Pro Ala Thr Leu Ser
20 25 30

Val Thr Pro Gly Asp Ser Val Ser Leu Ser Cys Arg Ala Ser Gln Thr
35 40 45

Ile Ser Asn Asn Leu His Trp Tyr Gln His Lys Ser His Glu Ser Pro
50 55 60

Arg Leu Leu Ile Lys Ser Ala Ser Gln Ser Ile Ser Gly Ile Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn
85 90 95

Ser Val Glu Thr Glu Asp Phe Gly Met Tyr Phe Cys Gln Gln Ser Tyr
100 105 110

Ser Trp Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
115 120 125

<210> 5
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<212> DNA
<213> Mus musculus

<220>
<221> CDS
<222> (1)..(414)

<220>
<223> Figure 2(A): Heavy chain variable region of
humanized VTm1.1 antibody (HuVTm1.1).

<400> 5
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Met Asn Phe Val Leu Ser Ser Ile Phe Leu Ala Leu Ile Leu Lys Gly
1 5 10 15

gtc cag tgt gaa gtg caa ctg gtg gag tcg ggg gga ggc tta gtg cag 96
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

cct gga ggg tcc ctg aga ctc tcc tgt gca gcc tct gga ttc act ttc 144
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

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agt agt tat ggc atg tct tgg gtt cgc cag gct ccg ggt aag ggt ctg   192
Ser Ser Tyr Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
     50                  55                  60

gag tgg gtc gca acc att agt act ggt ggt agt tac acc tac tac cca   240
Glu Trp Val Ala Thr Ile Ser Thr Gly Gly Ser Tyr Thr Tyr Tyr Pro
 65                  70                  75                  80

gac agt gtg aag ggt cga ttc acc atc tcc aga gac aat tcc aag aac   288
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
                 85                  90                  95

acc ctg tat ctg caa atg aac agt ctg agg gct gag gac acg gcc gta   336
Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
            100                 105                 110

tat tac tgt gca aga cgg ggg gac gca tgg ggt aac ttg gac tac tgg   384
Tyr Tyr Cys Ala Arg Arg Gly Asp Ala Trp Gly Asn Leu Asp Tyr Trp
        115                 120                 125

ggt caa gga acc tta gtc acc gtc tcc tca                           414
Gly Gln Gly Thr Leu Val Thr Val Ser Ser
    130                 135
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<210> 6
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<213> Mus musculus

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<223> Figure 2(A): Heavy chain variable region of
humanized VTm1.1 antibody (HuVTm1.1).

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  1               5                  10                  15

Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
             20                  25                  30

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
         35                  40                  45

Ser Ser Tyr Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
     50                  55                  60

Glu Trp Val Ala Thr Ile Ser Thr Gly Gly Ser Tyr Thr Tyr Tyr Pro
 65                  70                  75                  80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
                 85                  90                  95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
            100                 105                 110

Tyr Tyr Cys Ala Arg Arg Gly Asp Ala Trp Gly Asn Leu Asp Tyr Trp
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        115                 120                 125

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
    130                 135
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<210> 7
<211> 381
<212> DNA
<213> Mus musculus

<220>
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<220>
<223> igure 2(B): Light chain variable region of
humanized VTm1.1 antibody (HuVTm1.1) .

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Met Val Phe Thr Pro Gln Ile Leu Gly Leu Met Leu Phe Trp Ile Ser
  1               5                  10                  15

gcc tcc aga ggt gaa att gtg cta act cag tct cca gcc acc ctg tct   96
Ala Ser Arg Gly Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser
             20                  25                  30

gtg tct cca gga gaa aga gcc act ctt tcc tgc agg gcc agt caa act   144
Val Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Thr
         35                  40                  45

att agc aac aac cta cac tgg tat caa caa aaa cca ggt cag gct cca   192
Ile Ser Asn Asn Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
     50                  55                  60

agg ctt ctc atc aag tct gct tcc cag tcc atc tct ggg ata ccc gcc   240
Arg Leu Leu Ile Lys Ser Ala Ser Gln Ser Ile Ser Gly Ile Pro Ala
 65                  70                  75                  80

agg ttc agt ggc agt gga tca ggg aca gat ttc act ctc act atc agc   288
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
                 85                  90                  95

agt ctg gaa tct gaa gat ttt gca gtg tat tac tgt caa cag agt tac   336
Ser Leu Glu Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Tyr
            100                 105                 110

agt tgg ccg ctc acg ttc ggt caa ggg acc aag gtg gag atc aaa       381
Ser Trp Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
        115                 120                 125
```

<210> 8
<211> 127
<212> PRT

<213> Mus musculus

<220>
<223> Figure 2(B): Light chain variable region of
humanized VTm1.1 antibody (HuVTm1.1) .

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1 5 10 15

Ala Ser Arg Gly Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser
20 25 30

Val Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Thr
35 40 45

Ile Ser Asn Asn Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
50 55 60

Arg Leu Leu Ile Lys Ser Ala Ser Gln Ser Ile Ser Gly Ile Pro Ala
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
85 90 95

Ser Leu Glu Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Tyr
100 105 110

Ser Trp Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
115 120 125

<210> 9
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<212> PRT
<213> Homo sapiens

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<223> heavy chain variable region of the GF4/1.1 antibody

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1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Gly Ile Ser Ala Ser Gly Glu Asn Thr Tyr Tyr Ala Asp Pro Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Met Tyr Tyr Cys
85 90 95
Ala Lys Gly Gly Arg Gln Trp Val Val Leu Gly Tyr Phe Phe Asp Ser
100 105 110
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 10
<211> 110
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<213> Homo sapiens

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Glu Arg Val Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn
            20   25   30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
        35   40   45
Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
    50   55   60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Gln Ser
65   70   75   80
Glu Asp Phe Ala Leu Tyr Tyr Cys His Glu Tyr Asn Gly Trp Pro Pro
                85   90   95
Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
            100   105   110

2

1